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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,399	12/05/2001	David E. Petersen	120362(624226-322)	9413
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BEUSSE BROWNLEE WOLTER MORA & MAIRE, P. A. 390 NORTH ORANGE AVENUE			NGUYEN, HUNG T	
SUITE 2500		ART UNIT	PAPER NUMBER	
ORLANDO, FL 32801			2636	
			DATE MAILED: 05/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/005,399	PETERSEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hung T. Nguyen	2636				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 16 M	larch 2004.					
<u> </u>	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 3-14 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>3-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> </ul>						
<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 10-12 & 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Orschek (U.S. 5,394,137).

Regarding claim 10, Orschek discloses a device for detecting the position of rail vehicle hand brake (10) [ figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6 ] comprising:

- a circuit includes detector (50a,50b) as a switch for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, lines 4-12, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];
- a hand brake position (42) alarm responsive to the alarm signal (30,54,56) [ figs.1-3, col.3, line 23 to col.4, line 18 ];
- a cable or chain linkage can be used for actuating a parking brake by hand [col.1, lines 11-24].

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Orschek does not specifically mention a load path for supporting a weight of the drive chain by passing the switch as claimed by the applicant.

However, Orschek clearly discloses the parking brake detection (42) and warning system (30) which are couple to an electronic controller (52) may provide audible (56) and visual warning indicators (54) substantially prevents an operator of a rail vehicle from unnecessarily wearing down the parking brake system for locomotives at all time operating [ figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6 ].

Therefore, it would have been obvious to one having ordinary skill in the art to have the system of Orschek for detecting / providing a hand brake position alarm at all time operating to the railway operator before a train is moved with a hand brake not fully released.

Regarding claim 11-12, Orschek does not specifically disclose the hand brake detection further comprises an anchor bracket, pivot arm as mechanically components are applied in the parking brake system.

However, Orschek clearly discloses the parking brake detection (42) and warning system (30) which are couple to an electronic controller (52) may provide audible (56) and visual warning indicators (54) substantially prevents an operator of a rail vehicle from unnecessarily wearing down the parking brake system for locomotives at all time operating [ figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6].

Therefore, it would have been obvious to one having ordinary skill in the art to have the system of Orschek for detecting / providing a hand brake position alarm at all time operating to the railway operator before a train is moved with a hand brake not fully released.

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Regarding claim 14, Orschek discloses a device for detecting the position of rail vehicle hand brake (10) [ figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6 ] comprising:

- a circuit includes detector (50a,50b) as a switch for detecting a brake is not fully released [ figs.1-3, col.3, line 23 to col.4, line 8];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, lines 4-12, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];
- a hand brake position (42) alarm responsive to the alarm signal (30,54,56) [ figs.1-3, col.3, line 23 to col.4, line 18 ];
- a cable or chain linkage can be used for actuating a parking brake by hand [col.1, lines 11-24].

Orschek does not specifically mention a mechanism connecting the switch and the drive chain without supporting a weight of the drive chain through the switch as claimed by the applicant.

However, Orschek clearly discloses the parking brake detection (42) and warning system (30) which are couple to an electronic controller (52) may provide audible (56) and visual warning indicators (54) substantially prevents an operator of a rail vehicle from unnecessarily wearing down the parking brake system for locomotives at all time operating [ figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6].

Therefore, it would have been obvious to one having ordinary skill in the art to have the system of Orschek for detecting / providing a hand brake position alarm at all time operating to the railway operator before a train is moved with a hand brake not fully released.

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3. Claims 3-5 & 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Orschek (U.S. 5,394,137) in view of Hosaka et al (U.S. 4,962,570).

Regarding claim 3, Orschek discloses a hand brake alarm apparatus (10) includes a plurality of trucks (16a,16b) as locomotives [ figs.1-3, col.3, lines 11-22 and col.5, line 43 to col.6, line 6 ] comprising:

- a detector (50a,50b) for detecting a brake is not fully released / indicative of a hand brake of thr locomotive being engaged [ figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6 ];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released // indicative of a hand brake of the locomotive being engaged [figs.1-3, col.2, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];
- a controller (52) includes a memory device (58) for monitoring / controlling the hand brake alarm signal (54) [ figs.2-3, col.4, lines 1-23 ].

Orschek does not specifically mention the apparatus includes wheel slip circuit and a reverser detection device in non-neutral position for preventing the slip from occurring and providing a reversed position signals to the train operator.

Hosaka teaches a technique of using sensors (42,43) and a control unit (100) for controlling / determining the presence of a slip or the transmission is in reverse gear position at step (4130) in non-neutral position is inherently [figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract].

Therefore, it would have been obvious to one having ordinary skill in the art to have the teaching of Hosaka in the system of Orschek for detecting / monitoring the wheel slipping and reverser position status as desired.

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Regarding claim 4, Orschek discloses a hand brake alarm apparatus (10) comprises a plurality of trucks (16a,16b) as locomotives may consider a master locomotive and slave locomotives for communicating [ figs.1-3, col.3, lines 11-22 and col.5, line 43 to col.6, line 6 ] comprising:

- a detector (50a,50b) for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];
- a controller (52) includes a memory device (58) for monitoring / controlling the hand brake alarm signal (54) [ figs.2-3, col.4, lines 1-23 ].

Orschek does not specifically mention the apparatus includes wheel slip circuit and a reserve detection device for preventing the slip from occurring and providing a reverser position signals to the train operator.

Hosaka teaches a technique of using sensors (42,43) and a control unit (100) for controlling / determining the presence of a slip or the transmission is in reverse gear position at step (4130) [ figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract ].

Therefore, it would have been obvious to one having ordinary skill in the art to utilize the teaching of Hosaka in the system of Orschek for detecting / monitoring the wheel slipping and reverser position status.

Regarding claim 5, Orschek discloses a hand brake alarm apparatus (10) comprises a plurality of trucks (16a,16b) as locomotives may consider a master locomotive and slave locomotives for communicating [ figs.1-3, col.3, lines 11-22 and col.5, line 43 to col.6, line 6 ] comprising:

- a detector (50a,50b) for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6];

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- an alarm signal (54,56) / alarm circuit is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];

- a controller (52) includes a memory device (58) for monitoring / controlling the hand brake alarm signal (54) / alarm circuit [ figs.2-3, col.4, lines 1-23 ].

Orschek does not specifically mention the apparatus includes wheel slip circuit and a reserve detection device for preventing the slip from occurring and providing a reverser position signals to the train operator.

Hosaka teaches a technique of using sensors (42,43) and a control unit (100) for controlling / determining the presence of a slip or the transmission is in reverse gear position at step (4130) [ figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract ].

Therefore, it would have been obvious to one having ordinary skill in the art to utilize the teaching of Hosaka in the system of Orschek for detecting / monitoring the wheel slipping or reverser position status.

Regarding claim 9, Orschek discloses a hand brake alarm apparatus (10) comprises a plurality of trucks (16a,16b) may consider a multiple of locomotives [figs.1-3, col.3, lines 11-22 and col.5, line 43 to col.6, line 6] comprising:

- a detector (50a,50b) for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];
- a controller (52) includes a memory device (58) for monitoring / controlling the hand brake alarm signal (54) [ figs.2-3, col.4, lines 1-23 ].

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Orschek does not specifically mention the apparatus includes wheel slip circuit and a reserve detection device for preventing the slip from occurring and providing a reverser position signals to the train operator.

Hosaka teaches a technique of using sensors (42,43) and a control unit (100) for controlling / determining the presence of a slip or the transmission is in reverse gear position at step (4130) regardless the speed signal [ figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract ].

Therefore, it would have been obvious to one having ordinary skill in the art to utilize the teaching of Hosaka in the system of Orschek for detecting / monitoring the wheel slipping and reverser position status.

4. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Orschek (U.S. 5,394,137) in view of MacDonnell et al. (U.S. 3,854,417) further in view of Hosaka et al (U.S. 4,962,570).

Regarding claim 6, Orschek discloses a method of alarming a hand brake of a rail vehicle (10) [ figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6 ] comprising:

- a detector (50a,50b) for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6].

Orschek does not specifically disclose the alarm is activated before the rail vehicle is moved with the hand brake engaged.

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MacDonnell discloses an automatic visual hand brake system is used in a train of car will be turned on whenever the hand brake is engaged [figs.1-2, col.1, lines 22-40 and abstract].

Therefore, it would have been obvious to one having ordinary skill in the art to have the teaching of MacDonnell in the system of Orschek for immediately detecting / monitoring the hand brake is engaged before the vehicle is moved.

The combination of Orschek & MacDonnell do not specifically mention detecting movement of a master controller reverse of the locomotive to a non neutral position coincident with the hand brake being engaged.

Hosaka teaches a technique of using sensors (42,43) and a control unit (100) for controlling / determining the presence of a reverse gear position at step (4130) in non-neutral position is inherently [figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract].

Therefore, it would have been obvious to one having ordinary skill in the art to have the teaching of MacDonnell & Hosaka includes sensors (42,43) of reverse gear in the system of Orschek for detecting / monitoring the hand brake in reverser position status as desired.

Regarding claims 7-8, Orschek discloses a hand brake alarm apparatus (10) includes a plurality of trucks (16a,16b) as locomotives [figs.1-3, col.3, lines 11-22 and col.5, line 43 to col.6, line 6] comprising:

- a detector (50a,50b) for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6].

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Orschek & MacDonnell do not specifically mention the apparatus includes wheel slip circuit for monitoring sliding motion of the wheels as to prevent the slip from occurring and to notify that problem to the train operator.

Hosaka teaches a technique of using sensors (42,43) for determining the presence of a slip and generating a slip indicative signal [figs.13-14, col.6, line 67 to col.7, line 15, col.25, lines 45-67 and abstract].

Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of MacDonnell & Hosaka in the system of Orschek for producing a wheel slippage indicative signal when wheel slip is detected.

5. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Orschek (U.S. 5,394,137) in view of Hosaka et al (U.S. 4,962,570) further in view of Hoover (U.S. 4,161,717).

Regarding claim 13, Orschek discloses a hand brake alarm apparatus (10) includes a plurality of trucks (16a,16b) as locomotives [figs.1-3, col.3, lines 11-22 and col.5, line 43 to col.6, line 6] comprising:

- a detector (50a,50b) for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];
- a controller (52) includes a memory device (58) for monitoring / controlling the hand brake alarm signal (54) [ figs.2-3, col.4, lines 1-23 ].

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Orschek does not specifically mention the detection device includes a locked axle indicator and a reverser detection device for preventing the slip from occurring and providing a reversed position signals to the train operator.

Hosaka teaches a technique of using sensors (42,43) and a control unit (100) / logic device for controlling / determining the presence of a slip or the transmission is in reverse gear position at step (4130) [ figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract ].

Therefore, it would have been obvious to one having ordinary skill in the art to have the teaching of Hosaka in the system of Orschek for detecting / monitoring the wheel slipping or reverser position status.

The combination of Orschek and Hosaka is still missing the circuit includes a locked axle indicator for providing a warning signal if the sensed speed of one and only one of the axles is less than a predetermined low threshold level.

Hoover teaches a locked axle detector for monitoring speed sensors (21-24) whenever the vehicle is moving at a speed less than a predetermined low threshold level [col.1, lines 25-44 and col.5, lines 58-64].

Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of Hosaka and Hoover includes a locked axle indicator in the system of Orschek for providing a warning signal if the sensed speed of one and only one of the axles is less than a predetermined low threshold level.

## Arguments & Responses

6. Applicant's argument filed on Mar. 16, 2004 have been fully considered but they are not persuasive reasons.

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Applicant's Arguments:

A) The applicant states that the system of Orschek are not include a hand brake and brake

chain.

B) The applicant states the system of Orschek does not specifically mention a mechanism

connecting the switch and the drive chain without supporting a weight of the drive chain through

the switch.

C) The reference of Hosaka does not provide a brake engaged alarm.

D) Orschek and Hosaka & Hoover fail to disclose all limitation in claim 13.

Response to the arguments:

A) Orschek discloses a device for detecting the position of rail vehicle hand brake (10)

figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6] comprising:

- a circuit includes detector (50a,50b) as a switch for detecting a brake is not fully released [

figs.1-3, col.3, line 23 to col.4, line 8 ];

- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully

released [ figs.1-3, col.2, lines 4-12, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6,

line 6];

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- a hand brake position (42) alarm responsive to the alarm signal (30,54,56) [ figs.1-3, col.3, line 23 to col.4, line 18];
- a cable or chain linkage can be used for actuating a parking brake by hand [ col.1, lines 11-24 ].
- B) Orschek clearly discloses the parking brake detection (42) and warning system (30) which are couple to an electronic controller (52) may provide audible (56) and visual warning indicators (54) substantially prevents an operator of a rail vehicle from unnecessarily wearing down the parking brake system for locomotives at all time operating [ figs.1-3, col.2, lines 4-12, col.3, lines 23-51 and col.5, line 43 to col.6, line 6].

Therefore, it would have been obvious to one having ordinary skill in the art to have the system of Orschek for detecting / providing a hand brake position alarm at all time operating to the railway operator before a train is moved with a hand brake not fully released.

- C) The Hosaka teaches a technique of using sensors (42,43) and a control unit (100) / logic device for controlling / determining the presence of a slip or the transmission is in reverse gear position at step (4130) [ figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract ] which can be used for hand brake at reversed position.
- D) The references of Orschek and Hosaka & Hoover can be combined to reject all limitations in claim 13 in the following:

Orschek discloses a hand brake alarm apparatus (10) includes a plurality of trucks (16a,16b) as locomotives [figs.1-3, col.3, lines 11-22 and col.5, line 43 to col.6, line 6] comprising:

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- a detector (50a,50b) for detecting a brake is not fully released [figs.1-3, col.3, line 23 to col.4, line 8 and col.5, line 43 to col.6, line 6];
- an alarm signal (54,56) is activated to inform an operator cab (14) that the brake is not fully released [figs.1-3, col.2, col.3, line 65 to col.4, line 18 and col.5, line 43 to col.6, line 6];
- a controller (52) includes a memory device (58) for monitoring / controlling the hand brake alarm signal (54) [ figs.2-3, col.4, lines 1-23 ].

Orschek does not specifically mention the detection device includes a locked axle indicator and a reverser detection device for preventing the slip from occurring and providing a reversed position signals to the train operator.

Hosaka teaches a technique of using sensors (42,43) and a control unit (100) / logic device for controlling / determining the presence of a slip or the transmission is in reverse gear position at step (4130) [ figs.13-14, col.6, line 67 to col.7, line 15, col.25, line 45 to col.6, line 11 and abstract ].

Therefore, it would have been obvious to one having ordinary skill in the art to have the teaching of Hosaka in the system of Orschek for detecting / monitoring the wheel slipping or reverser position status.

The combination of Orschek and Hosaka is still missing the circuit includes a locked axle indicator for providing a warning signal if the sensed speed of one and only one of the axles is less than a predetermined low threshold level.

Hoover teaches a locked axle detector for monitoring speed sensors (21-24) whenever the vehicle is moving at a speed less than a predetermined low threshold level [col.1, lines 25-44 and col.5, lines 58-64].

Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of Hosaka and Hoover includes a locked axle indicator in the system of Orschek for

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providing a warning signal if the sensed speed of one and only one of the axles is less than a

predetermined low threshold level.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy

as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filled within TWO MONTHS of

the mailing date of this final action and the advisory action is not mailed until after the end of the

THREE MONTHS shortened statutory period, then the shortened statutory period will expire on

the date the advisory action is mailed, any extension fee pursuant to 37 CFR 1.136(a) will

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung T. Nguyen whose telephone number is (703) 308-6796.

The examiner can normally be reached on Monday to Friday from 8:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hofsass, Jeffery can be reached on (703) 305-4717. The fax phone number for this

Group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Examiner: Hung T. Nguyen

Date:

April 30, 2004

TECHNOLOGY CENTER 2600